MATERIAL SAFETY DATA SHEET

PRODUCT IDENTIFIER : SPECTRUM LEAD FREE RAISED AC WHITE								PRODUCT IDENTIFICATION NUMBER RAC1		
PRODUCT USE : CERAM	IIC UNDERGLAZE									
MANUFACTURER'S NAME SPECTRUM GLAZES INC.				SUPPLIER'S NAME SPECTRUM GLAZES INC.						
STREET ADDRESS 94 F		STREET ADDRESS 94 FENMAR DR				IVE				
CITY TORONTO PROVINCE ON			ARIO	RIO CITY TORONTO				PROVINCE ONTARIO		
POSTAL CODE M9L1M5 EMERGENCY TEL.(416)			47-8310	10 POSTAL CODE M9L1M5 EMERGENCY TEL.(416)747-8310						
SECTION 2 - HAZARDO	US INGREDIENT	s								
HAZARDOUS INGREDIENTS		%	CAS NUMBER		LD50 OF INGREDIENT (SPECIFY SPECIES AN ROUTE)				LC50 OF INGREDIEN (SPECIFY SPECIES	
SiO2		30-40	14808-60	0-7	ILV 15	ILV 15mg/m3 TLV/TWA				
Ca0		1-2	1305-78-	05-78-8						
Na20		8-12	1313-59-	-3						
Al203		8-10	1344-28-	-1						
B203		1-2	1303-86-	-2						
SECTION 3 - PHYSICA	L DATA									
PHYSICAL STATE LIQUID	ODOUR AND APPEARANCE ODOURLESS LIQUID							ODOUR THRESHOLD(PPM)		
VAPOUR PRESSURE (mm Hg) N.A.	VAPOUR DENS:	EVAPORATION RATE BOIL N.A. N.A.						FREEZING POINT(C) N.A.		
рн 6.5-7	SPECIFIC GRA	COEFF. WATER/OIL DIST. N.A.								
SECTION 4 - FIRE A	AND EXPLOSION	DATA								
FLAMMABILITY YES	NO X FLAME	S UNDER	WHICH CON	DITIC	ONS : T	HIS P	RODUCT D	OES N	OT SUPPORT COMBUSTION	
MEANS OF EXTINCTION	NO SPECIAL M	EANS RE	QUIRED							
FLASHPOINT AND METHOD NONE			UPPER FLAMMABLE LIMIT (% BY VOLUME) N.A.			Т		LOWER FLAMMABLE LIMIT (% BY VOLUME) N.A.		
AUTOIGNITION TEMP.(HAZARDOUS COMBUSTION PRODUCTS NONE					ΙE				
EXPLOSION DATA N.A.	CT N.A. ACTIVITY TO STATIC DISCHARG					E N.A.				
		SEC	CTION 5 - I	REACT	'IVITY D	DATA				
CHEMICAL STABILITY YES X NO IF N	O, UNDER WHIC	H CONDI	TIONS							
INCOMPATIBILITY WIT YES_ NO X IF S	TH OTHER SUBST		TY							
REACTIVITY AND UNDE	R WHAT CONDIT	IONS: N	O REACTIVI	TY						
									IC FUMES MAY BE	

PRODUCT IDENTIFIER SPECTRUM LEAD FREE UNDERGLAZE RAC1 WHITE SECTION 6 - TOXICOLOGICAL PROPERTIES ROUTE OF ENTRY SKIN ABSORPTION X SKIN CONTACT EYE CONTACT X INHALATION INGESTION EFFECTS OF ACUTE EXPOSURE TO PRODUCT: SKIN IRRITATION DUE TO ABRASIVENESS. EYE EXPOSURE COULD CAUSE IRRITATION BUT NO TOXIC EFFECTS. EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: METAL FUMES IN THE VAPOURS FROM FIRING CERAMIC GLAZES MAY CAUSE LUNG INFLAMATION AND DAMAGE TO KIDNEY AND NERVOUS SYSTEM. EXPOSURE LIMITS SENSITIZATION TO CARCINOGENICITY IRRITANCY OF PRODUCT PRODUCT TER ATOGENCITY REPRODUCTIVE TOXICITY MUTAGENICITY SYNERGISTIC PRODUCTS SECTION 7 - PREVENTIVE MEASURES PERSONAL PROTECTIVE EQUIPMENT: GLOVES (SPECIFY) RESPIRATOR (SPECIFY) EYE (SPECIFY) WORK GLOVES APPROVED DUST MASK SAFETY GLASSES FOOTWEAR (SPECIFY) CLOTHING (SPECIFY) OTHER (SPECIFY) ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS) VENTILATION SHOULD BE USED WHEN SPRAYING GLAZES. LEAK AND SPILL PROCEDURE: SCOOP INTO SUITABLE RECEPTACIE. DO NOT WASH DOWN DRAIN. WASTE DISPOSAL: SEND TO APPROVED SITE IN ACCORDANCE WITH REGULATIONS. HANDLING PROCEDURES AND EQUIPMENT: NO SPECIAL EQUIPEMENT NEEDED. FOLLOW STANDARD PLANT HYGIENE PROCEDURE. STORAGE REQUIREMENTS: STORE IN DRY AREAS. SPECIAL SHIPPING INFORMATION: PROTECT AGAINST PHYSICAL DAMAGE. DOT LABEL NON-REGULATED SECTION 8 - FIRST AID MEASURES SPECIFIC MEASURES: GLAZE CONTAINS THE OXIDES LISTED IN THE CHEMICAL FORMULA IN FORM OF CERAMIC FRIT. SOME OF THESE OXIDES ARE ON THE INGREDIENT DISCLOSURE LIST, ONCE THESE OXIDES ARE FUSED AND CONVERTED INTO FRIT THEY ARE NO LONGER AVAILABLE IN TOXIC FORM EVEN THOUGH TESTING WOULD DETECT THE PRESENCE OF THESE OXIDES. (FRIT IS ESSENTIALLY AN INSOLUBLE SUBSTANCE). THE OXIDES ARE PRESENT IN THE FORM OF A SINTERED CERAMIC STAIN OF LOW SOLUBILITY. THESE INGREDIENTS ARE PRESENT IN A STABLE AQUEOUS SUSPENSION. SECTION 9 - PREPARATION DATE OF MSDS PHONE NUMBER: DATE PREPARED BY

(416)747 - 8310

30 JULY 2009

(GROUP, DEPARTMENT, ETC.)

TECHNICAL DEPT.